

1.49  
Σ

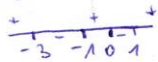
$$0 \leq \frac{\log_2 2x \cdot \log_2 \frac{x}{2}}{\log_2 x^4}$$

$$0 \leq \frac{(\log_2 2 + \log_2 x)(2 \log_2 \frac{x}{2})}{\log_2 x^4}$$

$$0 \leq (1 + \log_2 x) [2(\log_2 x - \log_2 2)] \cdot \log_2 8x$$

$$0 \leq (1 + \log_2 x) [2 - \frac{2}{\log_2 x}] \cdot \frac{1}{2} \log_2 8x = (1 + \log_2 x) (2 - \frac{2}{\log_2 x}) \cdot \frac{1}{2} (\log_2 8 + \log_2 x)$$

$$0 \leq (1+t)(2-\frac{2}{t}) \cdot \frac{1}{2}(3+t)$$



$$-1 \leq t < 0$$

$$t \leq -3$$

אם  $x > 0$

$$1 + x^2 > 0$$

$$1 + 8x > 0$$

$$|1, \frac{1}{8} \neq x > 1$$

$x \geq 2$	$\leftarrow \log_2 x > 1$
$\frac{1}{2} \leq x < 1$	$\leftarrow -1 < \log_2 x < 0$
$x \leq \frac{1}{8}$	$\leftarrow \log_2 x < -3$

יש להוסיף את המקרה  $0 < x < \frac{1}{8}$

$$|x \geq 2, \frac{1}{2} \leq x < 1, 0 < x < \frac{1}{8}|$$